PROFILE BALUSTRADE

COMPLIANCE SPECIFICATIONS

CAD REF. VPBA01-0

DATE 01.06.11

SCALE N/A

LOADING CASES
A = 0.36 kN/m
B = 0.75 kN/m
(0.5kN infill load shared by two balusters)

AS/NZS 1170.1 TABLE 3.3

TYPE OF OCCUPANCY FOR PART OF THE BUILDING OR STRUCTURE	SPECIFIC USE	COMPLIANT	LOADING CASE
A Domestic and residential activities	All areas within or serving exclusively one dwelling including stairs, landings etc but excluding external balconies and edges of roofs (see C3)	YES	A
	Other residential, (see also C)	YES	B
B, E Offices and work areas not included elsewhere including storage areas	Light access stairs and gangways not more than 600mm wide	YES	A
	Fixed platforms, walkways, stairways and ladders for access	YES	A
	Areas not susceptible to overcrowding in office and institutional buildings also industrial and storage buildings	YES	B

C Areas where people may congregate

C1/C2 Areas with tables or fixed seating	Areas with fixed seating adjacent to a balustrade, restaurants, bars etc	NO	-
C3 Areas without obstacles for moving people and not susceptible to over-crowding	Stairs, landings, external balconies, edge of roofs etc	YES	B
C5 Areas susceptible to over-crowding	Theatres,cinemas,grandstands,discoteques, bars,auditoria,shopping malls etc	NO	-
D Retail areas	All retail areas including public areas of banks/building societies, (see C5 for areas here over-crowding may occur)	NO	-

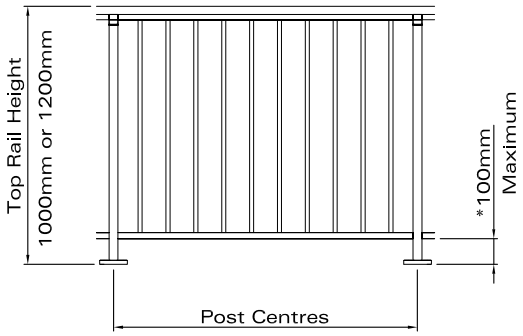
PROFILE BALUSTRADE AS/NZS 1170.1 COMPLIANCE SPECIFICATIONS

TYPE 1 BALUSTRADE

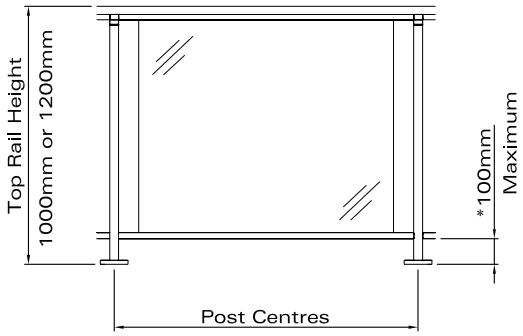
CAD REF. VPBA02-0

DATE 01.06.11

SCALE NTS



BALUSTERS



GLAZED

Type 1 Balustrade

*Distance is from the bottom of the bottom rail to the lowest point on the floor level.

Maximum baluster length is 1075mm

POST CENTRES TABLE					
HEIGHT OF TOP RAIL		1000mm		1200mm	
TOP RAIL		ELLIPTICAL OR ROUND		ELLIPTICAL OR ROUND	
BOTTOM RAIL		01966 or 01951	01964	01966 or 01951	01964
LIVE LOAD (Refer P1.2.1)	CASE A	1400mm	1650mm	1400mm	1650mm
	CASE B	1370mm	1530mm	1370mm	1530mm
WIND CASE (Use for glazed balustrades only)	LOW	1800mm	1800mm	1800mm	1800mm
	MEDIUM	1780mm	1750mm	1690mm	1660mm
	HIGH	1590mm	1560mm	1220mm	1220mm
	VERY HIGH	1340mm	1340mm	940mm	940mm

Choose minimum post centres from wind and live load case which applies to the situation

Example 1 : Internal Balustrade
1200mm Height Top Rail
01964 Bottom Rail
(Wind does not apply)

Live Load Case B = 1530mm Post Centres - Use 1530mm Post Centres

Example 2 : External Balustrade
1000mm Height Top Rail
01951 Bottom Rail
Very High Wind

Live Load Case B = 1370mm Post Centres
Wind Load Case = 1340mm Post Centres - Use 1340mm Post Centres

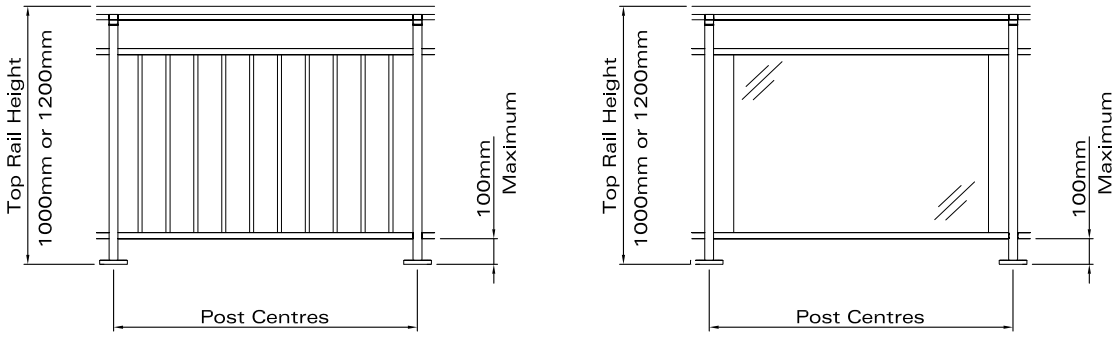
PROFILE BALUSTRADE AS/NZS 1170.1 COMPLIANCE SPECIFICATIONS

TYPE 2 BALUSTRADE

CAD REF. VPBA03-0

DATE 01.06.11

SCALE NTS



Type 2 Balustrade

*Distance is from the bottom of the bottom rail to the lowest point on the floor level.

Maximum baluster length is 1075mm

POST CENTRES TABLE					
HEIGHT OF TOP RAIL		1000mm		1200mm	
TOP RAIL		ELLIPTICAL OR ROUND		ELLIPTICAL OR ROUND	
INFILL RAILS		Both 01951 or 01966	At least one 01964	Both 01951 or 01966	At least one 01964
LIVE LOAD (Refer P1.2.1)	CASE A	1120mm	1120mm	1120mm	1120mm
	CASE B	1120mm	1120mm	1120mm	1120mm
WIND CASE (Use for glazed balustrades only)	LOW	1800mm	1800mm	1800mm	1800mm
	MEDIUM	1800mm	1800mm	1770mm	1720mm
	HIGH	1670mm	1630mm	1450mm	1450mm
	VERY HIGH	1540mm	1490mm	1120mm	1120mm

Choose minimum post centres from wind and live load case which applies to the situation

Example 1 : Internal Balustrade
1200mm Height Top Rail
01964 Infill Rail
(Wind does not apply)

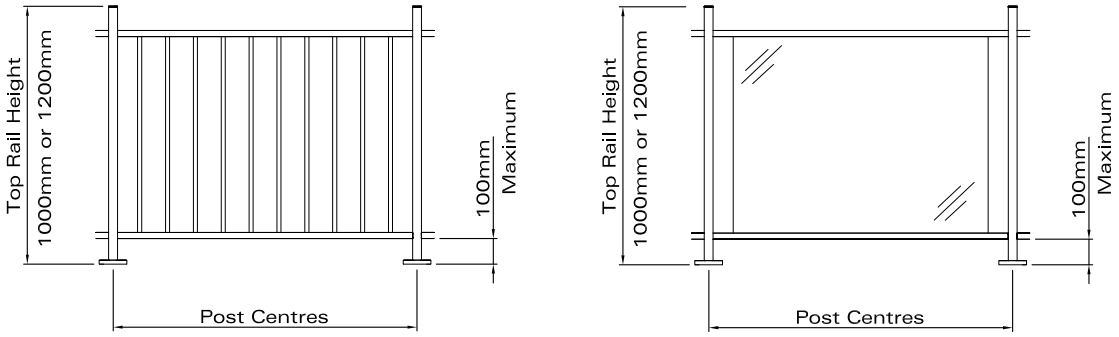
Live Load Case B = 1120mm Post Centres - Use 1120mm Post Centres

Example 2 : External Balustrade
1000mm Height Top Rail
01964 Infill Rail
Very High Wind

Live Load Case B = 1120mm Post Centres
Wind Load Case = 1490mm Post Centres - Use 1120mm Post Centres

PROFILE BALUSTRADE
AS/NZS 1170.1 COMPLIANCE SPECIFICATIONS
TYPE 3 BALUSTRADE

CAD REF. VPBA04-0	
DATE 01.06.11	SCALE NTS



Type 3 Balustrade

*Distance is from the bottom of the bottom rail to the lowest point on the floor level.

Maximum baluster length is 1075mm

POST CENTRES TABLE							
HEIGHT OF TOP RAIL		1000mm			1200mm		
TOP RAIL		01951	01951 / 01964	01964	01951	01951 / 01964	01964
BOTTOM RAIL		01951	01964 / 01951	01964	01951	01964 / 01951	01964
LIVE LOAD (Refer P1.2.1)	CASE A	1110mm	1420mm	1620mm	1110mm	1420mm	1620mm
	CASE B	1110mm	1380mm	1500mm	1110mm	1380mm	1500mm
WIND CASE (Use for glazed balustrades only)	LOW	1800mm	1800mm	1800mm	1800mm	1800mm	1800mm
	MEDIUM	1770mm	1750mm	1720mm	1660mm	1660mm	1630mm
	HIGH	1570mm	1560mm	1530mm	1220mm	1220mm	1220mm
	VERY HIGH	1340mm	1340mm	1340mm	940mm	940mm	940mm

Choose minimum post centres from wind and live load case which applies to the situation

Example 1 : Internal Balustrade
1200mm Height Top Rail
01964 Top Rail
01951 Bottom Rail
(Wind does not apply)

Live Load Case B = 1380mm Post Centres - Use 1380mm Post Centres

Example 2 : External Balustrade
1000mm Height Top Rail
01964 Top Rail
01964 Bottom Rail
Very High Wind

Live Load Case B = 1500mm Post Centres
Wind Load Case = 1340mm Post Centres - Use 1340mm Post Centres